



Serial No. 08/446,431  
Docket No. 05634.0150

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:

**John C. Harvey and James W. Cuddihy:**

Serial No.: 08/446,431

Filed: May 22, 1995

For: **SIGNAL PROCESSING APPARATUS  
AND METHODS**

Group Art Unit: 2733

Examiner: VU, H.

Atty Dkt: 05634.0150

RECEIVED  
98 JUN 18 AM 10:53  
GROUP 2100

TRANSMITTAL LETTER

BOX: Non-Fee Amendment



Assistant Commissioner of Patents  
Washington, D.C. 20231

- Information Disclosure Statement;
- PTO Form 1449;
- 3 Prior Art References;
- The Commissioner is hereby authorized to charge any additional fees, or credit any overpayment to Deposit Account No. 08-3038. This sheet is submitted in triplicate.
  - Any filing fees under 37 CFR 1.16 for the presentation of extra claims.
  - Any patent application processing fees under 37 CFR 1.17.

Date: June 17, 1998  
**HOWREY & SIMON**  
1299 Pennsylvania Avenue, NW  
Washington, D.C. 20004

Respectfully submitted,

Donald J. Lecher,  
Registration No. 41,933  
Attorney for Applicants  
Tel: (202) 383-6790



Serial No.: 08/08/446,431  
Docket No.: 05634.0150

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:

**John C. Harvey and James W. Cuddihy:**

Serial No.: 08/446,431

Filed: May 22, 1995

For: SIGNAL PROCESSING APPARATUS  
AND METHODS

Group Art Unit: 2733

Examiner: VU, H.

Atty Dkt: 05634.0150

25/IDS  
mef  
11/16/98

RECEIVED  
98 JUN 18 AM 10:58  
GROUP 2103

**Information Disclosure Statement**

Assistant Commissioner for Patents  
Washington, D.C. 20231



Sir:

Listed on accompanying Form PTO-1449 are documents that may be considered material to the examination of this application, in compliance with the duty of disclosure requirements of 37 C.F.R. §§ 1.56, 1.97 and 1.98.

Where the publication date of a listed document does not provide a month of publication, the year of publication of the listed document is sufficiently earlier than the effective U.S. filing date and any foreign priority date so that the month of publication is not in issue. Applicants have listed publication dates on the attached PTO-1449 based on information presently available to the undersigned. However, the listed publication dates should not be construed as an admission that the information was actually published on the date indicated.

Applicants reserve the right to establish the patentability of the claimed invention over any of the information provided herewith, and/or to prove that this information may not be prior art, and/or to prove that this information may not be enabling for the teachings purportedly offered.

This statement should not be construed as a representation that a search has been made, or that information more material to the examination of the present patent application does not exist. The Examiner is specifically requested not to rely solely on the material submitted herewith. It is further understood that the Examiner will consider information that had been cited by or submitted to the U.S. Patent and Trademark Office in a prior application relied on under 35 U.S.C. § 120. 1138 OG 37, 38 (May 19, 1992).

Applicants have checked the appropriate boxes below.

- [X] 1. This Information Disclosure Statement is being filed within three months of the U.S. filing date OR before the mailing date of a first Office Action on the merits. No statement under 37 C.F.R. § 1.97(e) or fee is required.
- [ ] 2. This Information Disclosure Statement is being filed more than three months after the U.S. filing date AND after the mailing date of the first Office Action on the merits, but before the mailing date of a Final Rejection or Notice of Allowance.
- [ ] a. I hereby state that each item of information contained in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this Information Disclosure Statement. 37 C.F.R. § 1.97(e)(1).
- [ ] b. I hereby state that no item of information in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to my knowledge after making reasonable inquiry, no item of information contained in this Information Disclosure Statement was known to any individual designated in 37 C.F.R. § 1.56(c) more than three months prior to the filing of this Information Disclosure Statement. 37 C.F.R. § 1.97(e)(2).
- [ ] c. Attached is our Check No. \_\_\_\_\_ in the amount of \$ \_\_\_\_\_ in payment of the fee under 37 C.F.R. § 1.17(p).
- [ ] 3. This Information Disclosure Statement is being filed more than three months after the U.S. filing date and after the mailing date of a Final Rejection or Notice of Allowance, but before payment of the Issue Fee. It is hereby requested that the Information Disclosure Statement be considered. Attached is our Check No. \_\_\_\_\_ in the amount of \_\_\_\_\_ in payment of the fee under 37 C.F.R. § 1.17(i).
- [ ] a. I hereby state that each item of information contained in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this Information Disclosure Statement. 37 C.F.R. § 1.97(e)(1).
- [ ] b. I hereby state that no item of information in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to my knowledge after making reasonable inquiry, no item of information contained in this Information Disclosure Statement was known to any

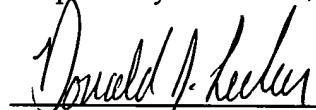
individual designated in 37 C.F.R. § 1.56(c) more than three months prior to the filing of this Information Disclosure Statement. 37 C.F.R. § 1.97(e)(2).

- [ ] 4. Relevance of the non-English language document(s) is discussed in the present specification.
- [ ] 5. The document(s) was/were cited in a corresponding foreign application. An English language version of the foreign search report is attached for the Examiner's information.
- [ ] 6. A concise explanation of the relevance of the non-English language document(s) appears below:
- [ ] 7. The Examiner's attention is directed to co-pending U.S. Patent Application No. \_\_\_\_\_, filed \_\_\_\_\_, which is directed to related technical subject matter. The identification of this U.S. Patent Application is not to be construed as a waiver of secrecy as to that application now or upon issuance of the present application as a patent. The Examiner is respectfully requested to consider the cited application and the art cited therein during examination.
- [ ] 8. Copies of the documents were cited by or submitted to the Office in Application No. \_\_\_\_\_, filed \_\_\_\_\_, which is relied upon for an earlier filing date under 35 U.S.C. § 120. Thus, copies of these documents are not attached. 37 C.F.R. § 1.98(d).

It is respectfully requested that the Examiner initial and return a copy of the enclosed PTO-1449, and to indicate in the official file wrapper of this patent application that the documents have been considered.

The U.S. Patent and Trademark Office is hereby authorized to charge any fee deficiency, or credit any overpayment, to our Deposit Account No. 08-3038.

Respectfully submitted,



Donald J. Lecher  
Registration No. P41,933  
Attorney for Applicants  
Tel: (202) 383-6790

Date: June 17, 1998  
**HOWREY & SIMON**  
1299 Pennsylvania Avenue, NW  
Washington, D.C. 20004

INFORMATION DISCLOSURE STATEMENT BY APPLICANT	Attorney Docket No.	Serial No.
	05634.0150	08/446,431
CITATION FORM		Applicant(s) John C. Harvey and James W. Cuddihy
	Filing Date May 22, 1995	Group Art Unit 2733

UNITED STATES PATENT DOCUMENTS

EXAMINER INITIAL	PATENT NUMBER	PATENT DATE	NAME	CLASS/ SUBCLASS	FILING DATE*
	4,647,974	March 3, 1987	Butler et al.	358/185	April 12, 1985

\* If Pertinent

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	PUBLICATION DATE	COUNTRY	CLASS/ SUBCLASS	TRANSLATION YES NO
	0 187 417	July 16, 1986	European	H04 N 7/087	
	1,515,309	June 21, 1978	Great Britain	G06 K 15/20	X

EXAMINER	DATE CONSIDERED
EXAMINER: Initial if citation considered, whether or not citation is in conformance with M.P.E.P. 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant(s).	